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United States Patent [19]

Togawa et al.

Patent Number: 5,918,008**[45] Date of Patent: Jun. 29, 1999****[54] STORAGE DEVICE HAVING FUNCTION FOR COPING WITH COMPUTER VIRUS**

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[75] Inventors: Yoshifusa Togawa; Takayuki Miyamoto; Kuriko Nozawa, all of Kawasaki, Japan**[73] Assignee:** Fujitsu Limited, Kawasaki, Japan**[21] Appl. No.: 08/656,908****[22] Filed:** Jun. 3, 1996**[30] Foreign Application Priority Data**

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[51] Int. Cl.⁶ G06F 11/00**[52] U.S. Cl.** 395/186; 395/183.14**[58] Field of Search** 395/183.14, 186, 395/187.01, 188.01; 380/3, 4**[56] References Cited****U.S. PATENT DOCUMENTS**

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A storage device, having the function of coping with a computer virus which has the ability to prevent infection with a computer virus and properly deal with infection with a computer virus, comprises: an infection management table used to manage files stored on a disk to see if the files are infected with viruses; a table registering unit for receiving a result of detection from a virus checker for detecting if a file stored on a disk is infected with a virus, and for registering the result in the infection management table; a judging unit that when a use request is made externally for a file stored on the disk, references the infection management table so as to judge if the file is infected with a virus; and a prohibiting unit that when the judging unit judges that a file is infected with a virus, prohibits the use of the file.

51 Claims, 28 Drawing Sheets